

FIG. 3

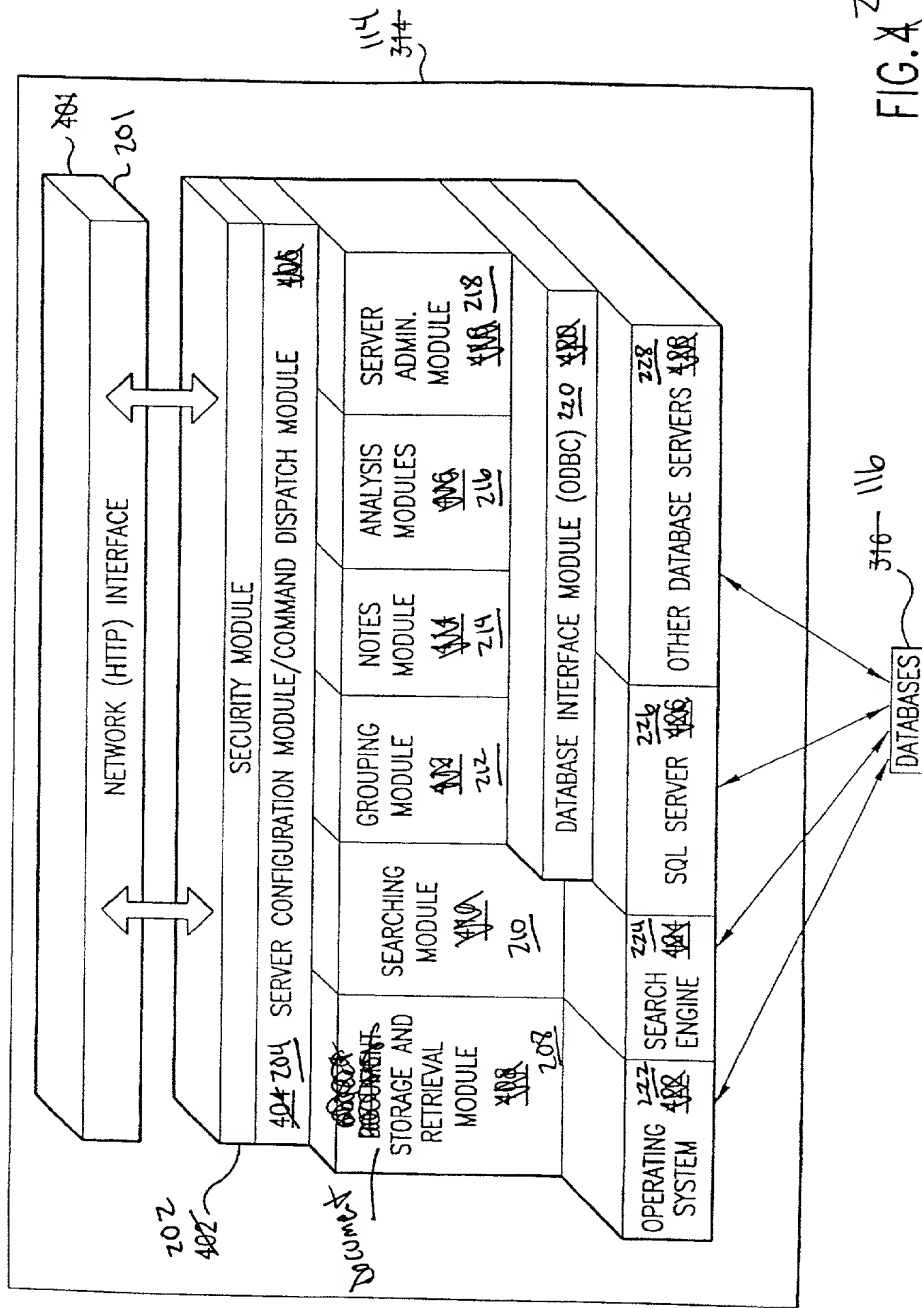


FIG. 4

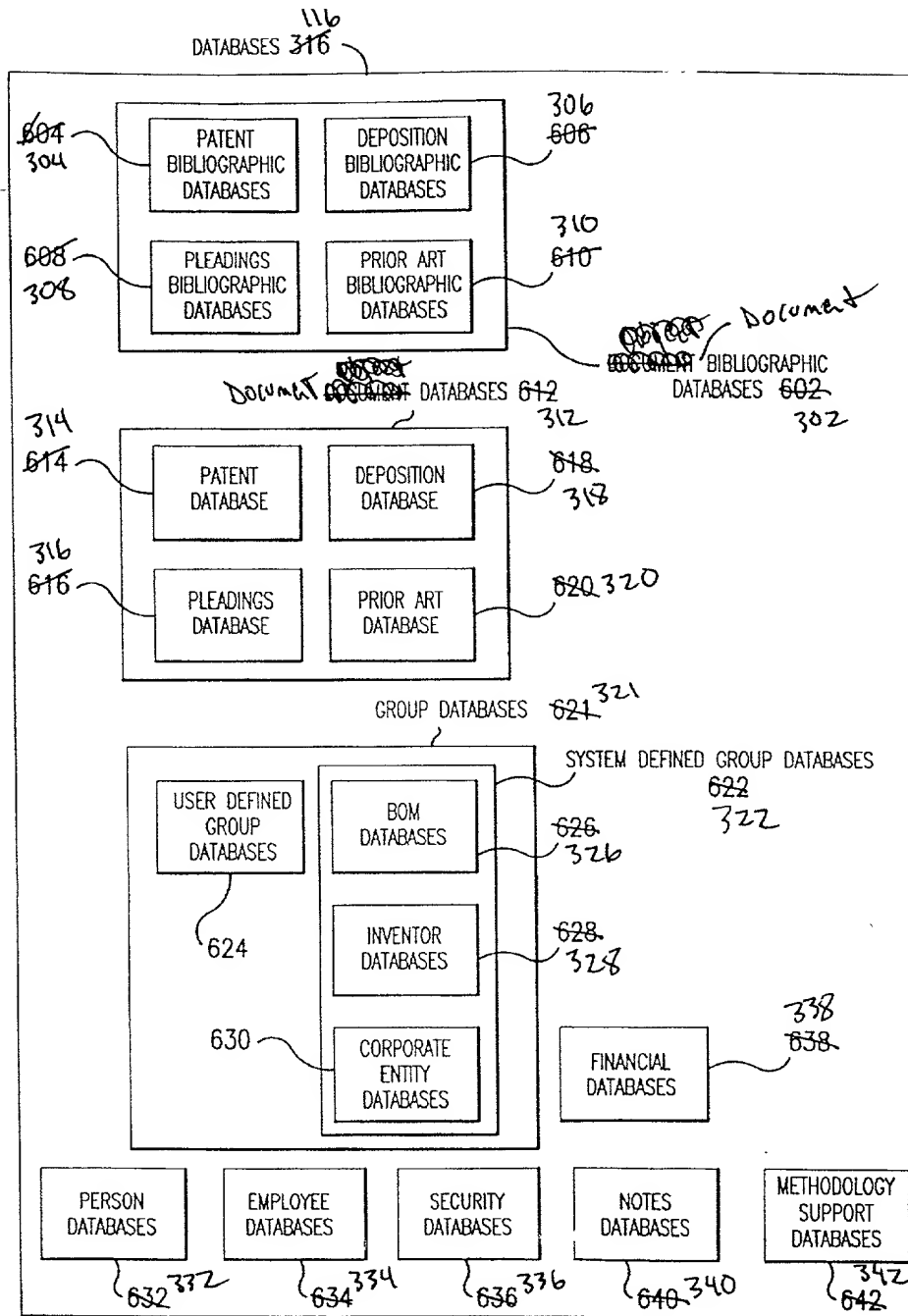


FIG. 6
3

Patent Analysis Modules

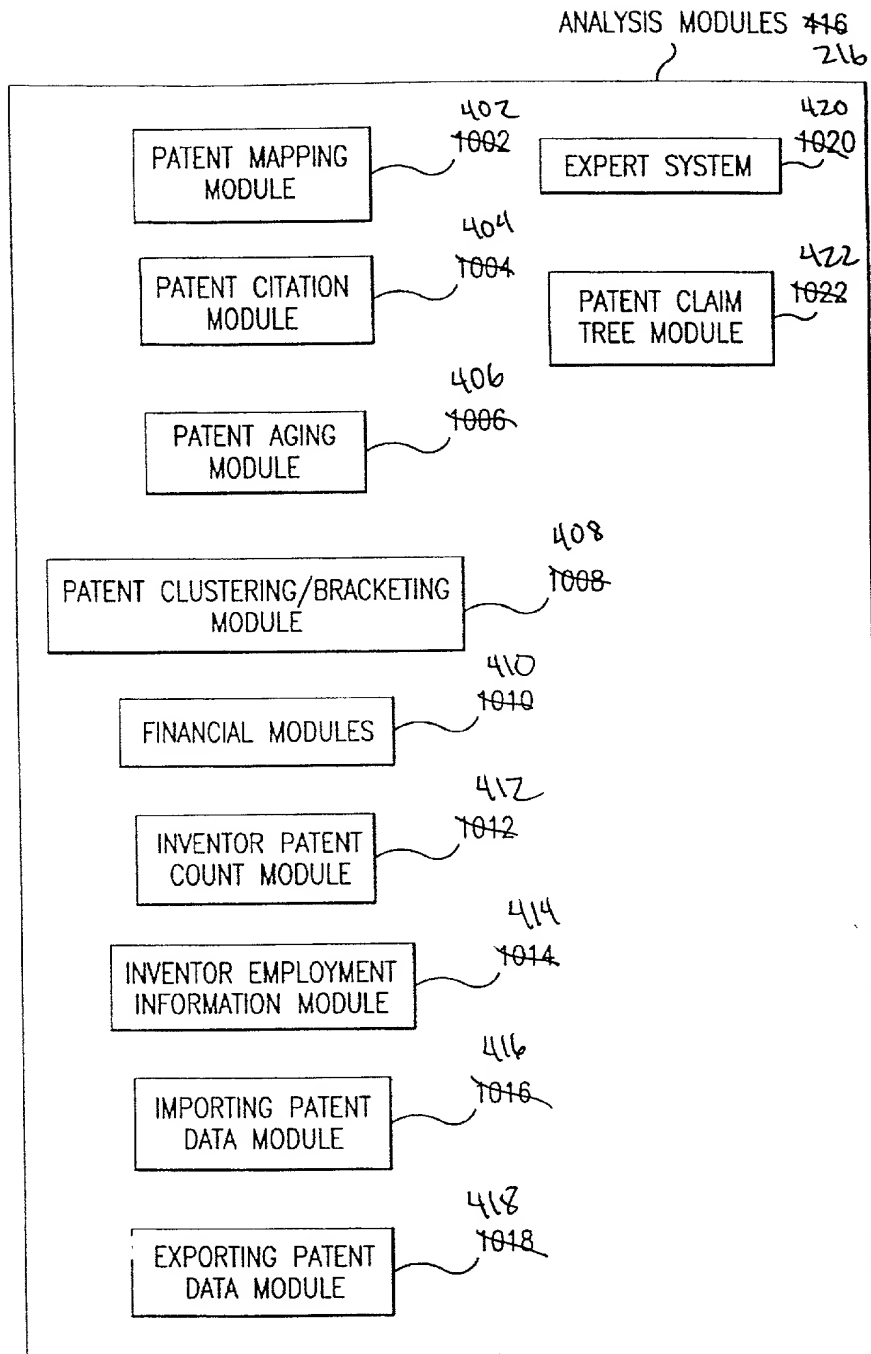


FIG. 10
4

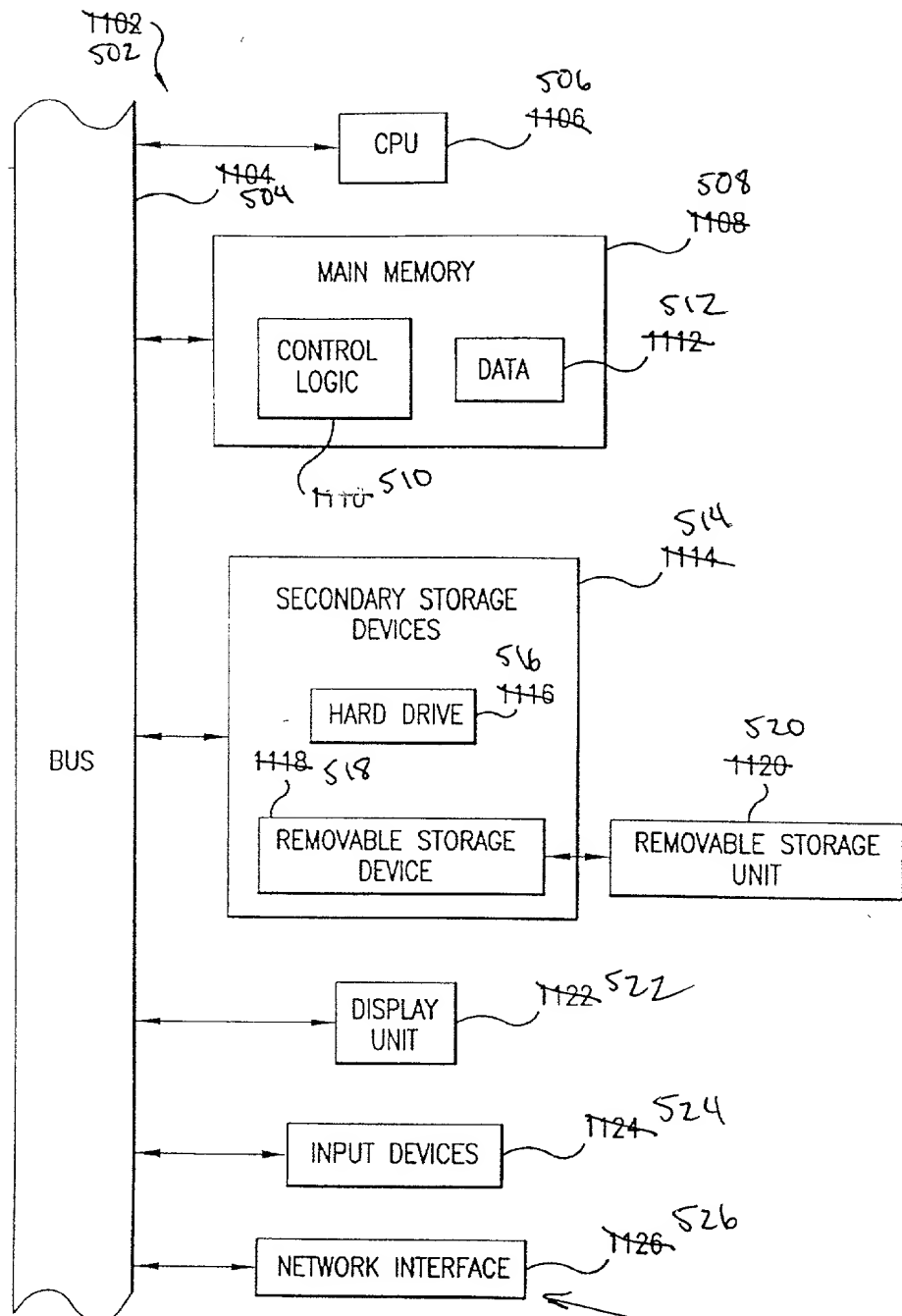


FIG. 11
5

Signals 527

602

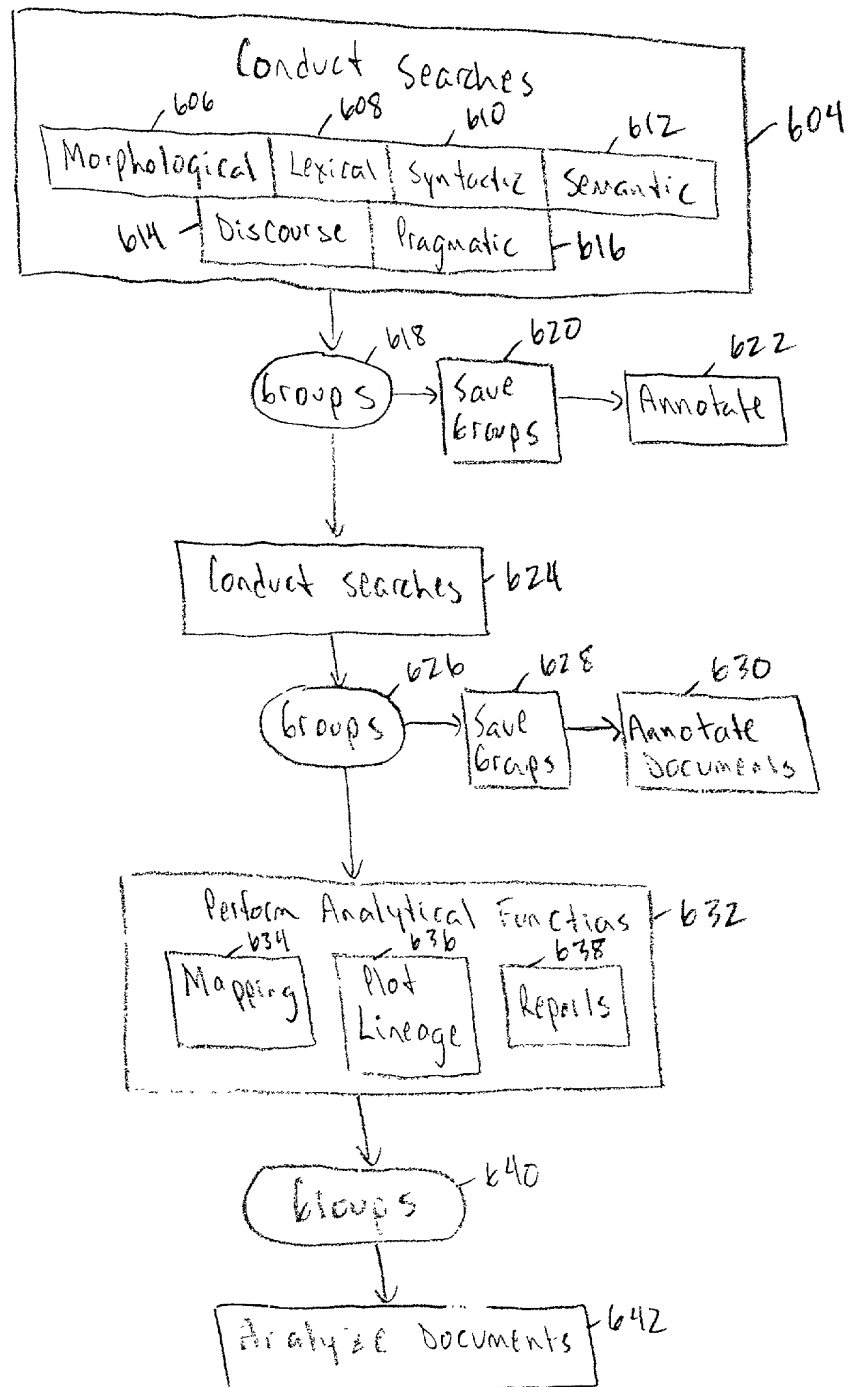


FIG. 6

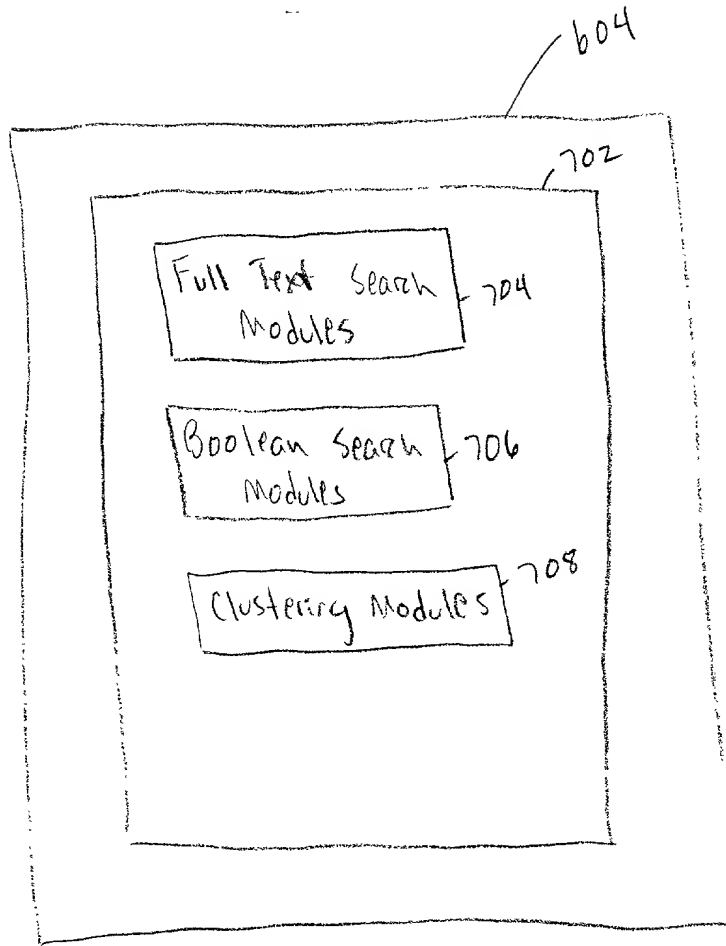


FIG. 7

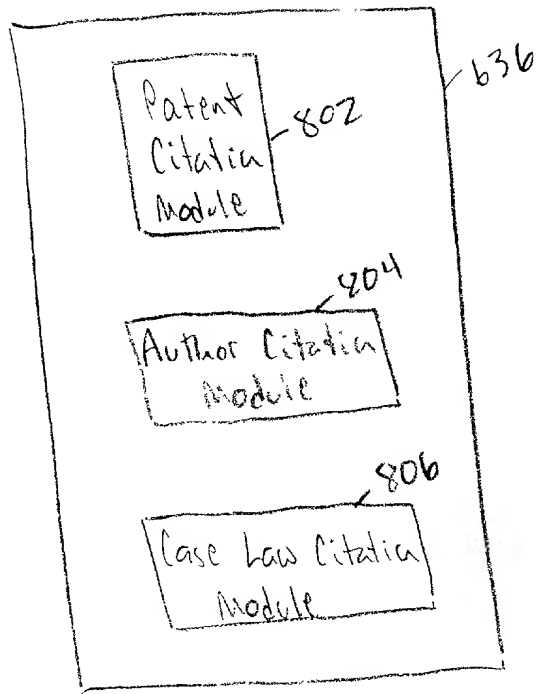


FIG. 8

902

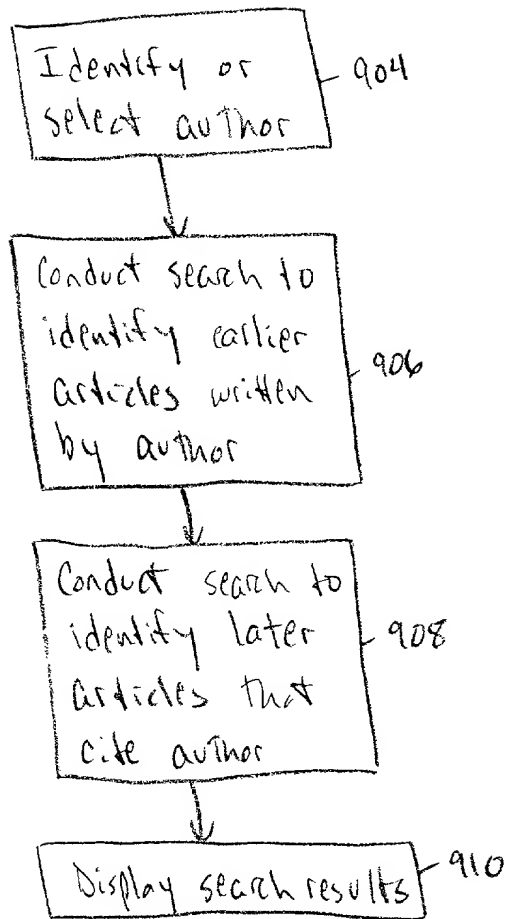


FIG. 9

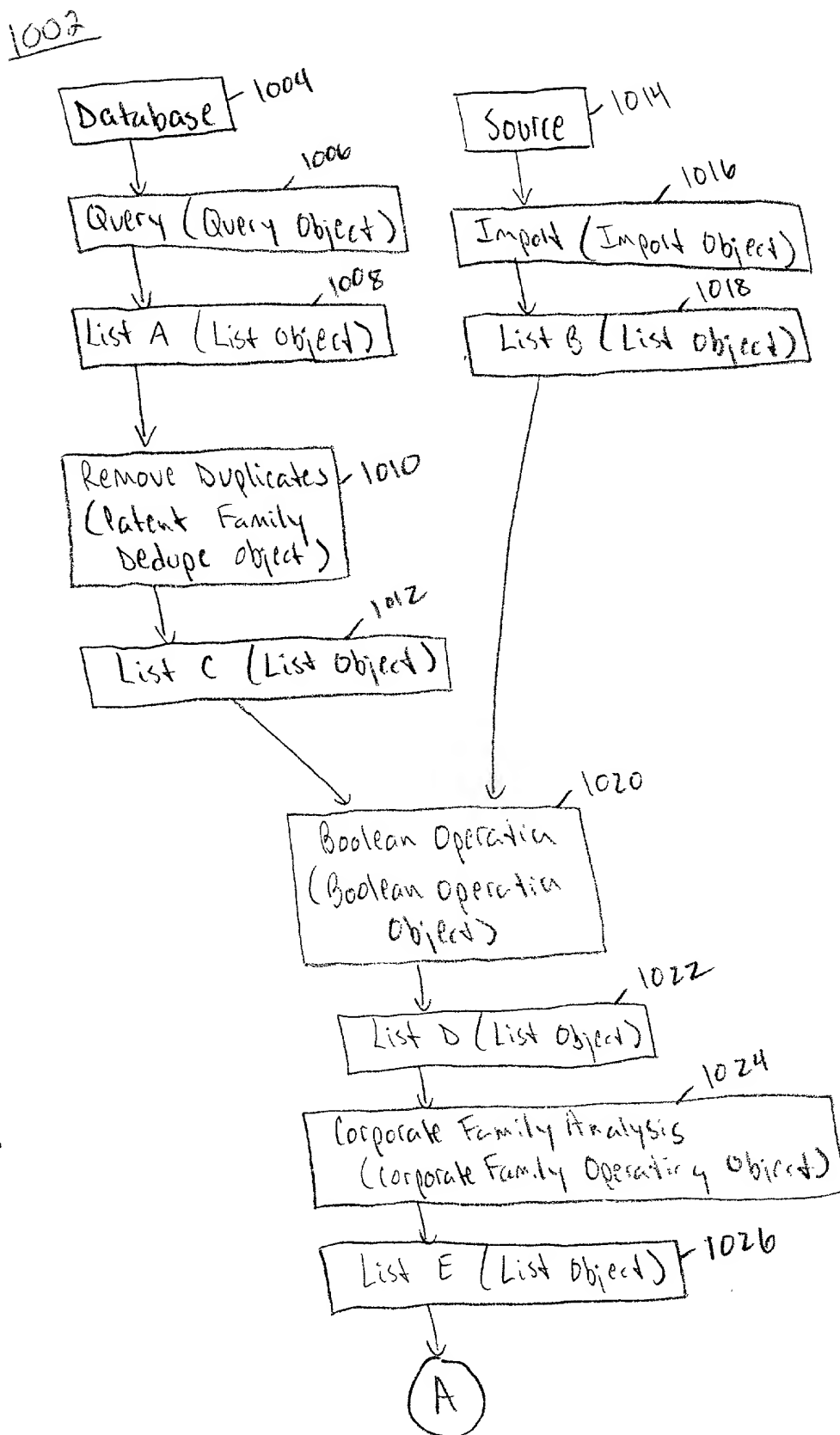


FIG. 10A

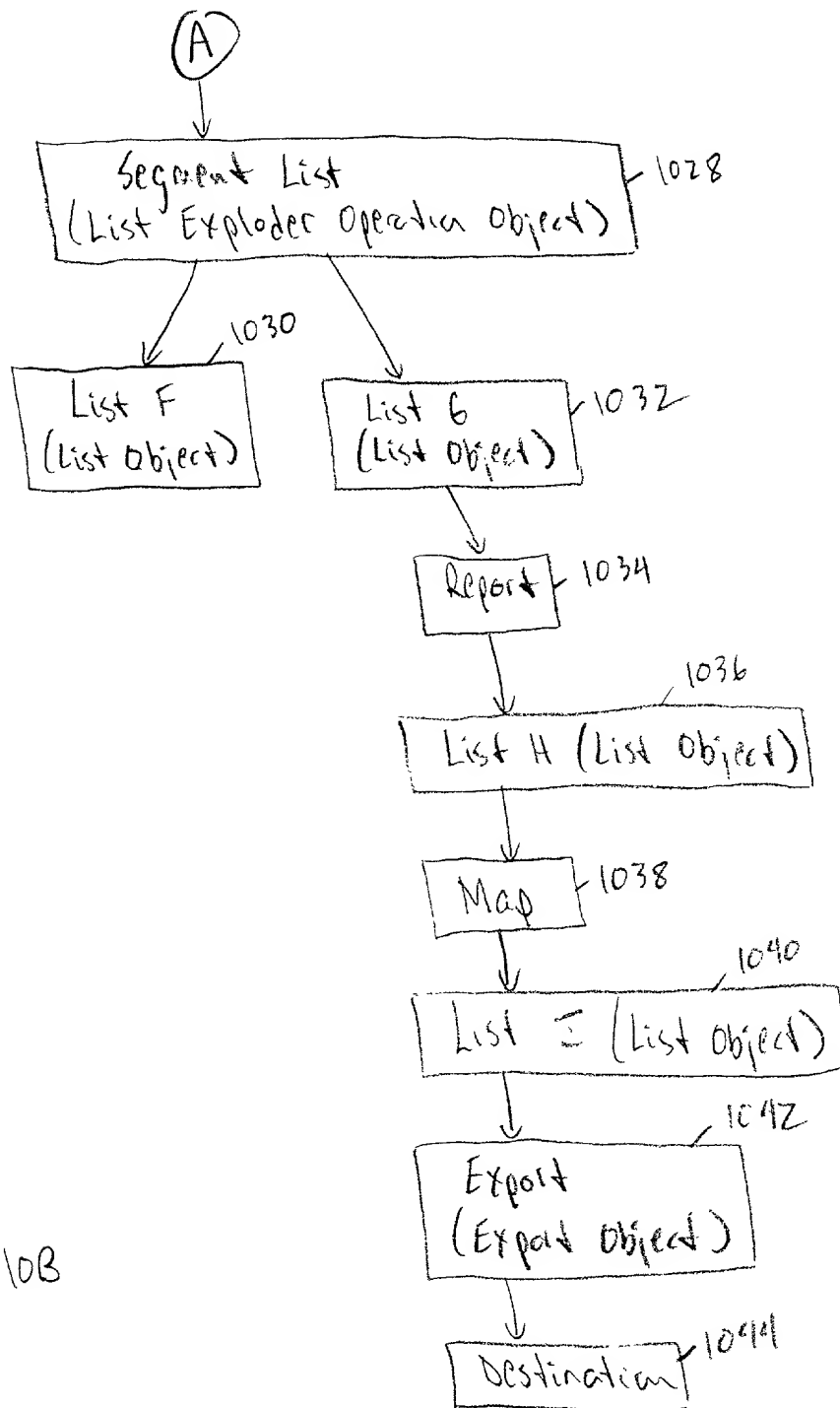


FIG. 10B

1102

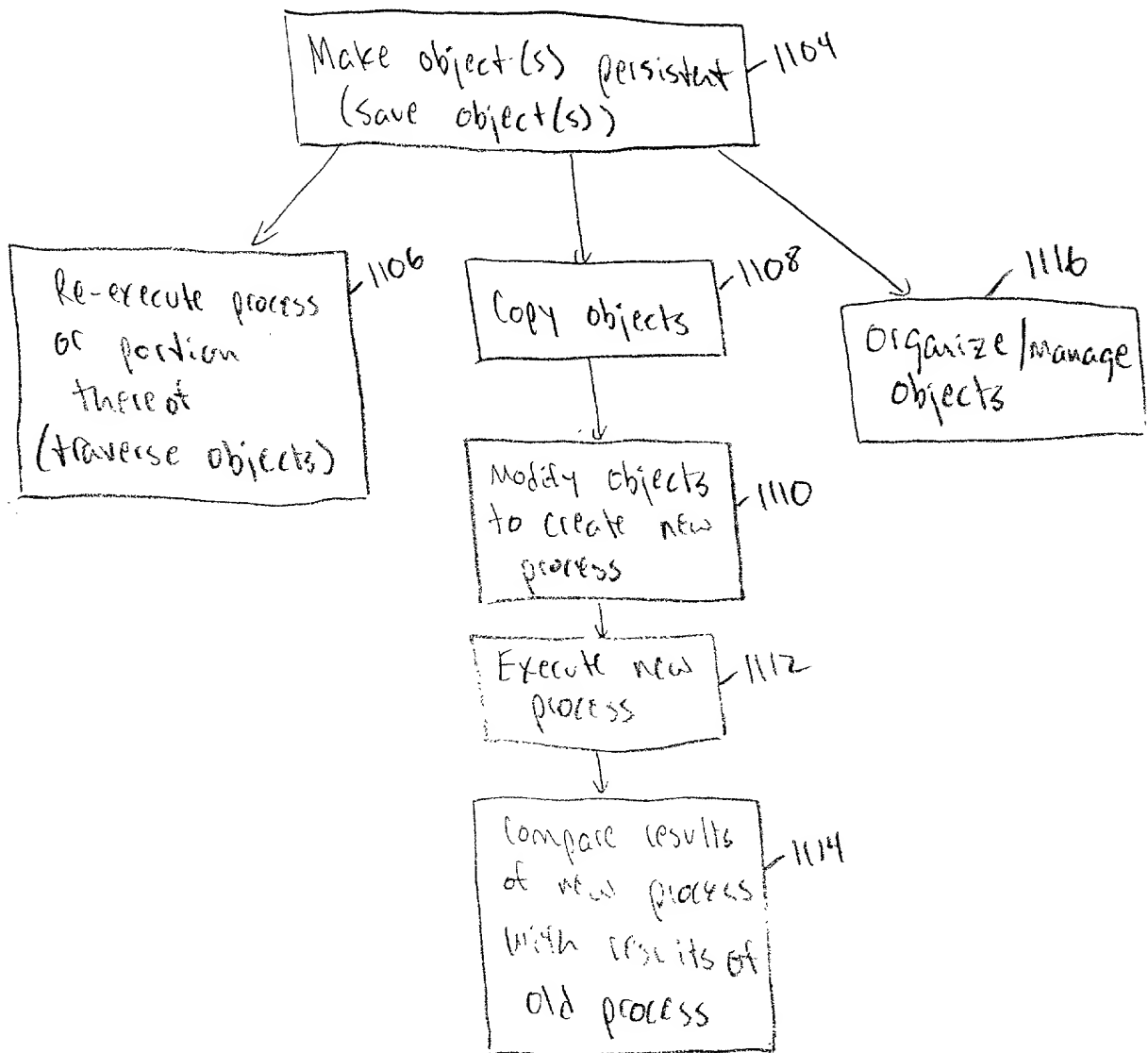
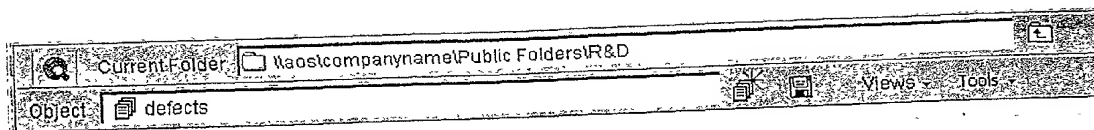
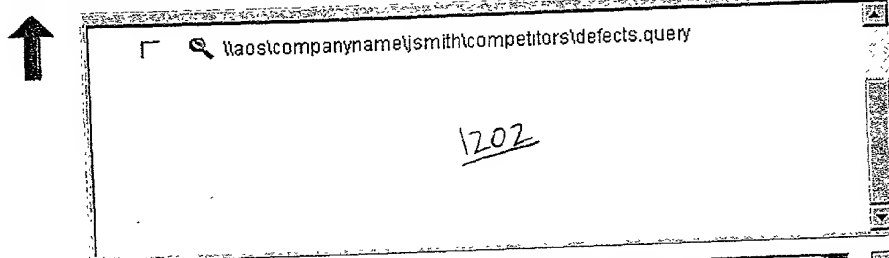


FIG. 11



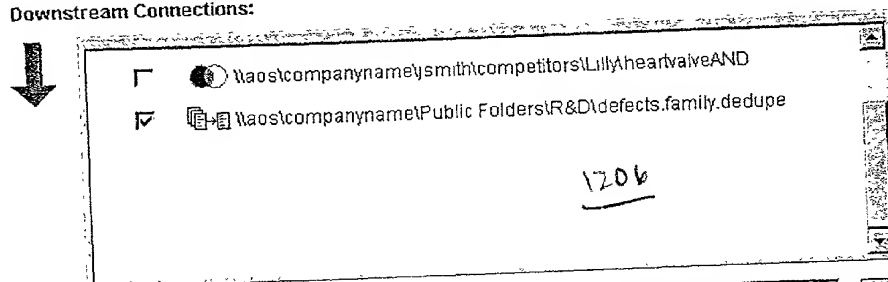
DOCUMENT LIST
CONNECTIONS VIEW

Upstream Connections:



New Connection: 1204

Downstream Connections:



New Connection: 1208

FIG. 12

Current Folder: \aos\companyname\smith\competitors

Object: NewQuery.qry

Views Tools Search

1312

QUERY OBJECT

Trigger Type 1302

- ☐ Manual
- ☒ Event-Based
- ☐ Time-Based

Start Trigger:

Tue 3/27/2001

1309

End Trigger:

1306

- ☐ No end date
- ☒ End after: 10 occurrences
- ☐ End by: Thu 4/5/2001

Event-Based Trigger:

Trigger on Change to:

- ☐ Database Aurigin Patent Database
- ☒ Object \aos\companyname\Public Folders\R&D\newproj.lst

1308

Time-Based Trigger

- ☒ Daily
 - ☒ Every 1 day(s)
 - ☐ Every weekday
- ☐ Weekly
 - Trigger every 1 week(s) on:
 - ☐ Sunday ☐ Monday ☒ Tuesday ☐ Wednesday
 - ☐ Thursday ☐ Friday ☐ Saturday
- ☐ Monthly
 - ☒ Day 27 of every 1 month(s)
 - ☐ The fourth Tuesday of every 1 month(s)

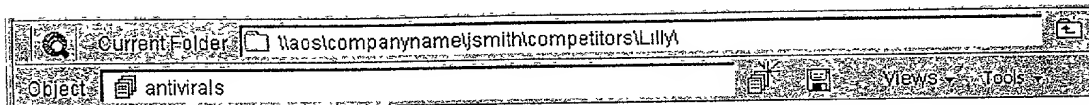
1310

Save

Cancel

FIG. 13

FIG. 13



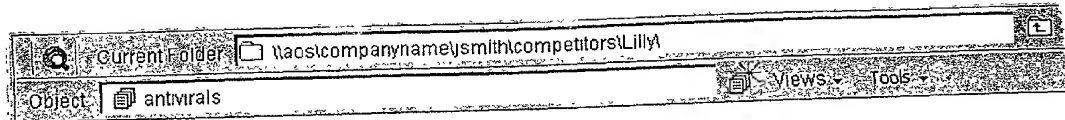
DOCUMENT LIST
ATTRIBUTE VIEW

Object Type	Document List
Path\Name	\\aos\companyname\jsmith\competitors\Lilly\antivirals
Object ID	list549
Description	all Lilly antiviral patents/apps worldwide
Object Version	1.0
Owner	jsmith
Create Date	Feb 23 2001
Modification Date	Feb 27 2001

Save Description

View Change History

FIG. 14



MODIFICATION HISTORY VIEW

Date	User	Modification Type
2/23/2001	administrator	Object created
		Object Type = List
		Name = product group 1
		Path = \\aos\companyname\competitors\Lilly\
		Owner = administrator
		Object Version = 1.0
2/23/2001	administrator	Name changed
		Name = antivirals
2/23/2001	administrator	Path changed
		Path = \\aos\companyname\smith\competitors\Lilly\
2/23/2001	administrator	Object Description changed
2/23/2001	administrator	Owner changed
		Owner = jsmith
2/27/2001	administrator	Object version updated
		Object Version = 2.0
2/27/2001	jsmith	Permissions changed
2/27/2001	jsmith	Annotations changed
2/27/2001	jsmith	Contents added
2/27/2001	jsmith	Contents deleted
2/27/2001	jsmith	Contents modified
3/5/2001	tjones	Object copied
		Name = Lilly-Antivirals
		Path = \\aos\companyname\tjones\competitors
		Owner = tjones

FIG. 15

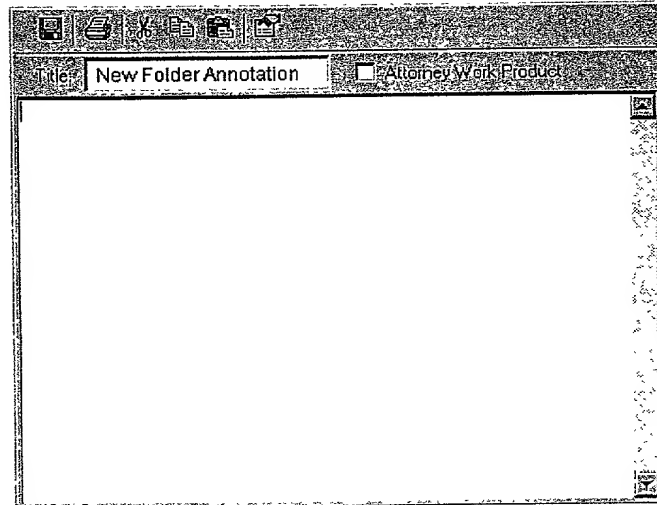
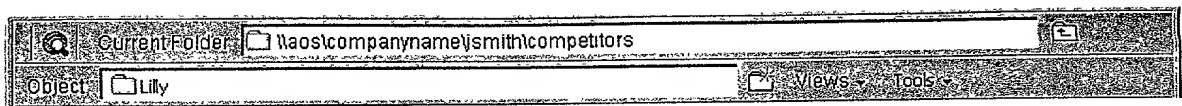
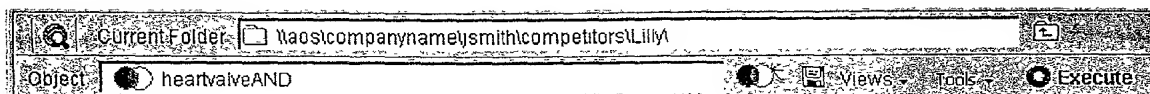


FIG. 16



BOOLEAN OBJECT
MAIN VIEW

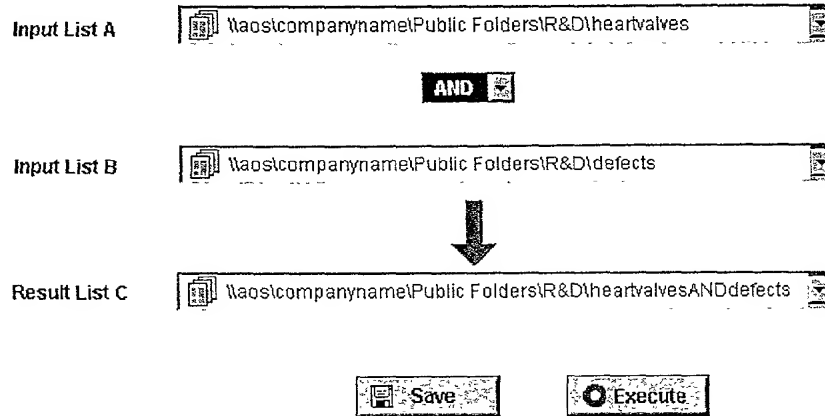
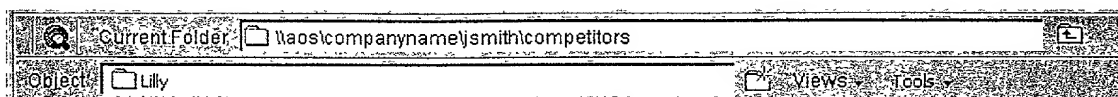


FIG. 17



CONTENT VIEW

- anti-ulcer
- anti-virals
- hypertension
- 2000.0712.uspto.Black Ice Software.TIFF.viewer.htm
- 2000.0721.uspto.record counts.bob.doc
- 2000.0811.uspto.Post Issuance.bob.xls
- 2000.1102.us.expirations.Arno's Memo (AIPA).doc
- 2000.1103.IFI.uspto.Post Issuance.bob.xls
- uspto.contacts.doc
- uspto.redbook.format.defn.02part1.pdf
- uspto.redbook.format.defn.appendix.F.08appf.pdf

FIG. 18

Current Folder: \naost\companyname\smith\competitors\JillyA

Object: antivirals

Views Tools

LIST OBJECT
LIST DISPLAY OPTIONS VIEW

Default View	Documents Per Page	Content Change Type	
<input checked="" type="radio"/> Short List View	30	<input checked="" type="radio"/> Auto-Change	
<input type="radio"/> Full List View	10	<input type="radio"/> Pending-Change	
<input type="radio"/> Abstract List View	5		
<input type="radio"/> Shoebox List View	1		

Show Documents with Document Status. <input type="checkbox"/> Active <input checked="" type="checkbox"/> Deleted <input type="checkbox"/> Pending-Add <input checked="" type="checkbox"/> Pending-Delete	Sort List by Assignee <input checked="" type="radio"/> Ascending <input type="radio"/> Descending Then by IPC Code <input checked="" type="radio"/> Ascending <input type="radio"/> Descending Then by Priority Date <input checked="" type="radio"/> Ascending <input type="radio"/> Descending
----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Show Document View Links <input type="checkbox"/> Standard View <input checked="" type="checkbox"/> Fulltext View <input checked="" type="checkbox"/> Claims View	<input checked="" type="checkbox"/> Aurigin Family View <input type="checkbox"/> Derwent Family View	<input checked="" type="checkbox"/> Summary Page View <input checked="" type="checkbox"/> PDF Image View <input checked="" type="checkbox"/> HTML Image View
----------------------------------------------------------------------------------------------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------	--------------------------------------------------------------------------------------------------------------------------------------------------------------------

Show Fields:

Short List View	Full List View	Abstract List View	Shoebox List View
<input checked="" type="checkbox"/> Country Code	<input checked="" type="checkbox"/> Country Code	<input checked="" type="checkbox"/> Country Code	<input checked="" type="checkbox"/> Country Code
<input checked="" type="checkbox"/> Kind Code	<input checked="" type="checkbox"/> Kind Code	<input checked="" type="checkbox"/> Kind Code	<input checked="" type="checkbox"/> Kind Code
<input checked="" type="checkbox"/> Doc ID	<input checked="" type="checkbox"/> Doc ID	<input checked="" type="checkbox"/> Doc ID	<input checked="" type="checkbox"/> Doc ID
<input checked="" type="checkbox"/> Title	<input checked="" type="checkbox"/> Title	<input checked="" type="checkbox"/> Title	<input checked="" type="checkbox"/> Title
<input checked="" type="checkbox"/> Priority Date	<input checked="" type="checkbox"/> Priority Date	<input checked="" type="checkbox"/> Priority Date	<input checked="" type="checkbox"/> Priority Date
<input checked="" type="checkbox"/> Filing Date	<input checked="" type="checkbox"/> Filing Date	<input checked="" type="checkbox"/> Filing Date	<input checked="" type="checkbox"/> Filing Date
<input checked="" type="checkbox"/> Publication Date	<input checked="" type="checkbox"/> Publication Date	<input checked="" type="checkbox"/> Publication Date	<input checked="" type="checkbox"/> Publication Date
<input checked="" type="checkbox"/> Assignees	<input checked="" type="checkbox"/> Assignees	<input checked="" type="checkbox"/> Assignees	<input checked="" type="checkbox"/> Assignees
<input checked="" type="checkbox"/> Inventors	<input checked="" type="checkbox"/> Inventors	<input checked="" type="checkbox"/> Inventors	<input checked="" type="checkbox"/> Inventors
<input checked="" type="checkbox"/> IPC Code	<input checked="" type="checkbox"/> IPC Code	<input checked="" type="checkbox"/> IPC Code	<input checked="" type="checkbox"/> IPC Code
<input checked="" type="checkbox"/> USPC Code	<input checked="" type="checkbox"/> USPC Code	<input checked="" type="checkbox"/> USPC Code	<input checked="" type="checkbox"/> USPC Code
<input checked="" type="checkbox"/> Legal Status	<input checked="" type="checkbox"/> Legal Status	<input checked="" type="checkbox"/> Legal Status	<input checked="" type="checkbox"/> Legal Status
<input checked="" type="checkbox"/> Doc Status	<input checked="" type="checkbox"/> Doc Status	<input checked="" type="checkbox"/> Doc Status	<input checked="" type="checkbox"/> Doc Status
<input checked="" type="checkbox"/> Change Source	<input checked="" type="checkbox"/> Change Source	<input checked="" type="checkbox"/> Change Source	<input checked="" type="checkbox"/> Change Source
<input checked="" type="checkbox"/> Status Change Date	<input checked="" type="checkbox"/> Status Change Date	<input checked="" type="checkbox"/> Status Change Date	<input checked="" type="checkbox"/> Status Change Date
<input checked="" type="checkbox"/> Doc View Links	<input checked="" type="checkbox"/> Doc View Links	<input checked="" type="checkbox"/> Doc View Links	<input checked="" type="checkbox"/> Doc View Links
<input checked="" type="checkbox"/> Abstract	<input checked="" type="checkbox"/> Abstract	<input checked="" type="checkbox"/> Abstract	<input checked="" type="checkbox"/> Abstract
<input checked="" type="checkbox"/> Front Page Thumbnail	<input checked="" type="checkbox"/> Front Page Thumbnail	<input checked="" type="checkbox"/> Front Page Thumbnail	<input checked="" type="checkbox"/> Front Page Thumbnail
<input checked="" type="checkbox"/> Primary Drawing	<input checked="" type="checkbox"/> Primary Drawing	<input checked="" type="checkbox"/> Primary Drawing	<input checked="" type="checkbox"/> Primary Drawing

List Content Views: [Short](#) [Full](#) [Abstract](#) [Shoebox](#)

FIG. 19

Current Folder: \\aos\companyname\smith\competitors\Lilly

Object: antivirals Views Tools

LIST OBJECT
SHORT LIST VIEW

List Content Views. Short Full Abstract Shoebox

Set View Options

150 Documents

Results 1-20

Page 1 of 8 Go

Prev Next

	Select	Country Code	Doc ID	Doc Kind	Title	Pub Date	Status	Status Change Date	Change Source	View Document
1	<input checked="" type="checkbox"/>	US	3883561	A1	Antibiotic lactones	5/13/1975	A	2/24/2001	Query549	T C
2	<input checked="" type="checkbox"/>	US	3903371	A1	Mycophenolic acid derivatives	9/2/1975	A	2/24/2001	Query549	T C
3	<input checked="" type="checkbox"/>	US	3990527	A1	Anti-viral method in animals	11/30/1976	PA	3/7/2001	Query549	T C
4	<input checked="" type="checkbox"/>	US	4035481	A1	Antibiotic A-28086 and process f	7/12/1977	A	2/24/2001	Book123	T C
5	<input checked="" type="checkbox"/>	US	4053696	A1	Acylation of pyrazofurin	10/11/1977	PD	3/7/2001	Query549	T C
6	<input checked="" type="checkbox"/>	US	4085224	A1	Method of increasing feed utiliza	4/18/1978	PA	3/7/2001	Query549	T C
7	<input checked="" type="checkbox"/>	US	4115197	A1	Procedure for obtaining penicilli	9/19/1978	A	2/24/2001	Query549	T C
8	<input checked="" type="checkbox"/>	US	4133876	A1	Antibiotic A-32887 and process f	1/9/1979	D	2/28/2001	Manual	T C
9	<input checked="" type="checkbox"/>	US	4141907	A1	Decoxynarasin antibiotics	2/27/1979	A	2/24/2001	Query549	T C
10	<input checked="" type="checkbox"/>	US	4153695	A1	Substituted 2,3-dihydro imidazo[1	5/8/1979	A	2/24/2001	Book123	T C
11	<input checked="" type="checkbox"/>	US	3883561	A1	Antibiotic lactones	5/13/1975	A	2/24/2001	Query549	T C
12	<input checked="" type="checkbox"/>	US	3903371	A1	Mycophenolic acid derivatives	9/2/1975	A	2/24/2001	Query549	T C
13	<input checked="" type="checkbox"/>	US	3990527	A1	Anti-viral method in animals	11/30/1976	PA	3/7/2001	Query549	T C
14	<input checked="" type="checkbox"/>	US	4035481	A1	Antibiotic A-28086 and process f	7/12/1977	A	2/24/2001	Query549	T C
15	<input checked="" type="checkbox"/>	US	4053698	A1	Acylation of pyrazofurin	10/11/1977	D	2/28/2001	Manual	T C
16	<input checked="" type="checkbox"/>	US	4085224	A1	Method of increasing feed utiliza	4/18/1978	D	3/28/2001	Manual	T C
17	<input checked="" type="checkbox"/>	US	4115197	A1	Procedure for obtaining penicilli	9/19/1978	D	2/28/2001	Book123	T C
18	<input checked="" type="checkbox"/>	US	4133876	A1	Antibiotic A-32887 and process f	1/9/1979	A	2/24/2001	Query549	T C
19	<input checked="" type="checkbox"/>	US	4141907	A1	Decoxynarasin antibiotics	2/27/1979	A	2/24/2001	Query549	T C
20	<input checked="" type="checkbox"/>	US	4153695	A1	Substituted 2,3-dihydro imidazo[1	5/8/1979	A	2/24/2001	Query549	T C

Select All

Deselect All

Accept Selected Pending

Delete Selected

150 Documents

Results 1-20

Page 1 of 8 Go

Prev Next

FIG. 20

Current Folder: \nos\companyname\smith\competitors\Lilly\

Object: antivirals

Views: Tools

LIST OBJECT
FULL LIST VIEW

List Content Views: [Short](#) [Full](#) [Abstract](#) [Shoebox](#)

[Set View Options](#)

150 Documents

Results 1-10

Page 1 of 15 [Go](#)

[Prev](#) | [Next](#)

	Select	Country Code	Doc ID	Doc Kind	Title	Assignees	Inventors	Pub Date	IPC Code	View Document
1	<input checked="" type="checkbox"/>	US	3883561	A1	Antibiotic lactones	Eli Lilly and Company	Michel, Karl H.; Hoehn, Marvin M.	5/13/1975	C07D /00	T C I D I D
2	<input checked="" type="checkbox"/>	US	3903371	A1	Mycophenolic acid derivatives	Eli Lilly and Company	Holmes, Richard E.	9/2/1975	[2] C07H /00	T C I D I D
3	<input checked="" type="checkbox"/>	US	3990527	A1	Anti-viral method in animals	Eli Lilly and Company	GALE, CHARLES, McDougald, Larry F.	11/30/1976	[2] A61K /68, [2] A61K /71	T C I D I D
4	<input checked="" type="checkbox"/>	US	4035481	A1	Antibiotic A-28086 and process for production thereof	Eli Lilly and Company	Berg, David H.; HAMILL, ROBERT L., Hoehn, Marvin M.	7/12/1977	[2] A61K /00	T C I D I D
5	<input checked="" type="checkbox"/>	US	4053698	A1	Synthesis of pyrazolium	Eli Lilly and Company	Gutowski, Gerald E.	10/11/1977	[2] C07D /40, [2] C07H /06, [2] C07D /38, [2] C07H /02	T C I D I D
6	<input checked="" type="checkbox"/>	US	4085224	A1	Method of increasing feed utilization	Eli Lilly and Company	Berg, David H., HAMILL, ROBERT L., Hoehn, Marvin M.	4/19/1978	[2] A61K /35	T C I D I D
7	<input checked="" type="checkbox"/>	US	4115197	A1	Procedure for obtaining penicillium species mutants with improved ability to synthesize mycophenolic acid	Eli Lilly and Company	Queener, Stephen W., Nash, III, Claude H.	9/19/1978	[2] C12K /02; [2] C12D /10; [2] C12D /06	T C I D I D
8	<input checked="" type="checkbox"/>	US	4133576	A1	Antibiotic A-28086 and process for production thereof	Eli Lilly and Company	HAMILL, ROBERT L., Hoehn, Marvin M.	3/5/1979	[2] A61K /00	T C I D I D
9	<input checked="" type="checkbox"/>	US	4141907	A1	Deoxynarasin antibiotics	Eli Lilly and Company	Nakatsukasa, Walter M.; HAMILL, ROBERT L.; MARCONI, GARY G.; Neuss, Norbert	2/27/1979	[2] A61K /35; [2] C07D /22	T C I D I D
10	<input checked="" type="checkbox"/>	US	4153695	A1	Substituted 2,3-dihydro imidazo[1,2-c]pyrimidines	Eli Lilly and Company	Turner, William W.	5/8/1979	[2] A61K /505 [2] C07D /04	T C I D I D

[Select All](#)

[Deselect All](#)

[Accept Selected Pending](#)

[X Delete Selected](#)

150 Documents

Results 1-10

Page 1 of 15 [Go](#)

[Prev](#) | [Next](#)

FIG. 21



LIST OBJECT
SHOEBOX LIST VIEW

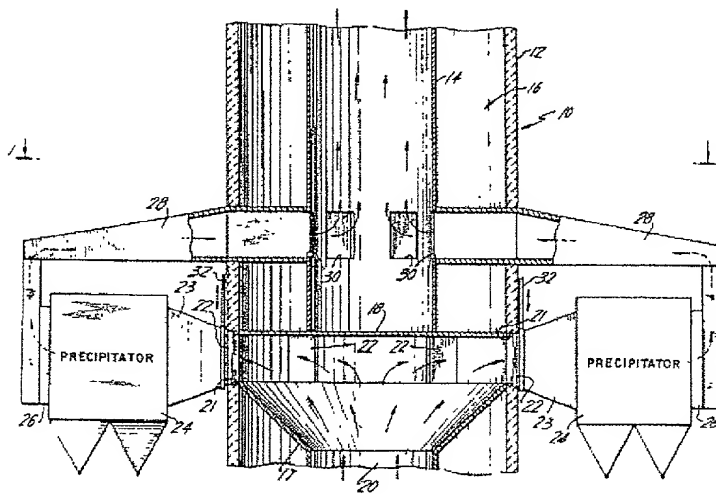
Document 1 of 27 Go

Prev | Next

☒ MULTIPLE UNIT PRECIPITATOR APPARATUS

Doc ID: US 3631655 A1
Assignee: Buell Engineering Company, Inc.
Pub Date: 01/04/1972

T | C | I | A



Select All

Deselect All

Accept Selected Pending

X Delete Selected

Document 1 of 27 Go

Prev | Next

List Content Views: [Short](#) [Full](#) [Abstract](#) [Shoebox](#)

[Set View Options](#)

FIG. 22

Current Folder: %aostcompanyname\smith\competitors

Object: NewQuery.qry Views Tools Search

Search Target

Database: Aurigin Patent Database

List: %aostcompanyname\Public Folders\R&D\newproj.lst

Document Type Granted Patents

	US	PCT	JP	EP	DE	GB	Global
Applications	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Granted Patents	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Match All Fields

Document ID

Entire Document hide text searching options

Title Only

Abstract Only

Claims Only

Assignee hide searchable patent fields

Inventor

Issue/Pub Date Any and (mm/dd/yyyy)

Filing Date Any and (mm/dd/yyyy)

US Class

Int'l Class

Search

FIG. 23

Current Folder: \\aos\companyname\smith\competitors\Lilly

Object: Custom.family.deduper Views: Tools: Execute

PATENT FAMILY DEDUPE OBJECT
DOCUMENT RETENTION PRIORITY VIEW

Upstream (Input) List

\\aos\companyname\Public Folders\R&D\newproj

Downstream (Output) List

\\aos\companyname\Public Folders\R&D\newproj.deduped

Available document sources:		Retain documents in this order:
Aurigin Family Record	Add →	US Grant
Derwent WPI Family Record		EP Grant (PubLang = English)
DE Application	← Remove	GB Grant
DE Grant		US Application
EP Application (PubLang = English)	Move Up	EP Application (PubLang = English)
EP Grant (PubLang = English)		WO Application (PubLang = English)
FR Application	Move Down	GB Application
FR Grant		JP Grant
GB Application		JP Application
GB Grant		DE Grant
JP Application		DE Application
JP Grant		FR Grant

OK Cancel

Execute

FIG. 24

Current Folder: \aostcompanyname\smith\competitors\Lilly\

Object: Custom.family.deduper Views Tools

PATENT FAMILY DEDUPE OBJECT
FAMILY DEFINITION VIEW

Standard Family Definition:

- ☐ Inpadoc Family
- ☐ Derwent Family

Custom Family Definition:

- ☒ Identical Priority Family
- ☐ Priority-in-Common Family

Components for Custom Family Definitions:

Application Level:

- ☒ Application to Priority
- ☐ Continuation in Part to Application
- ☐ Post-issuance to Application
(Supplemental Search Reports, Corrections, etc)
- ☒ Transfer of Application
(PCT Transfers (W1, W4), EPO National Application Transfers, etc)

Grant Level

- ☒ Grant to Application
- ☒ Reissue of Grant

Post-Grant Level:

- ☐ Post-issuance to Grant
- ☐ Re-exam of Grant
- ☐ Certificate of Correction to Grant
- ☒ EP National Transfers (R1, R4) based on EP Regional Grant
- ☒ National Level Translations (T) based on EP Grant

Other Family Member Types:

- ☒ Technical Equivalent Family Member

FIG. 25

Current Folder: \\aos\companyname\smith\competitors\LillyA

Object: Custom.family.expander Views Tools Execute

PATENT FAMILY EXPAND OBJECT
DOCUMENT INCLUSION VIEW

Upstream (Input) List

\\aos\companyname\Public Folders\R&D\newproj

Downstream (Output) List

\\aos\companyname\Public Folders\R&D\newproj.expand

Document Types to Include

- ☐ Pseudo-Documents
- ☒ Primary Patent Documents
- ☐ Secondary Patent Documents

Standard Family Definition:

- ☐ Inpadoc Family
- ☐ Derwent Family

Custom Family Definition:

- ☒ Identical Priority Family
- ☐ Priority-in-Common Family

Components for Custom Family Definitions:

Application Level:

- ☒ Application to Priority
- ☐ Continuation in Part to Application
- ☐ Post-Issuance to Application
 (Supplemental Search Reports, Corrections, etc)
- ☒ Transfer of Application
 (PCT Transfers (W1, W4), EPO National Application Transfers, etc)

Grant Level:

- ☒ Grant to Application
- ☒ Reissue of Grant

Post-Grant Level:

- ☐ Post-Issuance to Grant
- ☐ Re-exam of Grant
- ☐ Certificate of Correction to Grant
- ☒ EP National Transfers (R1, R4) based on EP Regional Grant
- ☒ National Level Translations (T) based on EP Grant

Other Family Member Types:

- ☒ Technical Equivalent Family Member

Save

Execute

FIG. 26

aurigin
online

aurigin

log out

aureka online

aurigin patent search

training

resources

customer support

product info

Address: \\aos\aurigin\tblair\pct-1978\780018

Folders

Aurigin Patent Database

tblair

5662280

aurigin

smartpatents

jp-a2 12/99

jp-b1

pct-1978

7800018

Lilly

Pfizer

Pharmacia

2000.0712.uspto.Black

2000.0721.uspto.record

2000.0811.uspto.Post I

2000.1102.us.expiration

2000.1103,IFI.uspto,Pc

uspto.contacts.doc

uspto.redbook.format.c

uspto.redbook.format.c

Public Folders

Everyone

Licensing

R&D

Folder Contents

Lilly

Pfizer

Pharmacia

2000.0712.uspto.Black Ice Software.TIFF.viewer.htm

2000.0721.uspto.record counts.bob.doc

2000.0811.uspto.Post Issuance.bob.xls

2000.1102.us.expirations.Arno's Memo (AIPA).doc

2000.1103,IFI.uspto.Post Issuance.bob.xls

uspto.contacts.doc

uspto.redbook.format.defn.02part1.pdf

uspto.redbook.format.defn.appendix.F.08appf.pdf

FIG. 27

2802

Database - 2804

\Rightarrow upstream object ~ 2810

Query - 2806

List - 2808

\Rightarrow downstream object ~ 2812

FIG. 28

2902

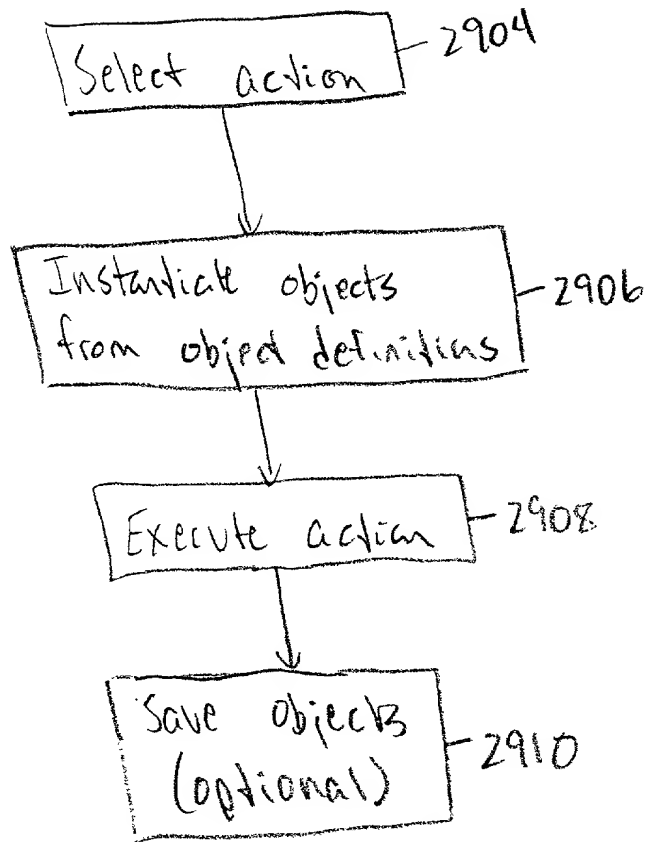


FIG. 29

Business Workflow and Analytics Portal (BWAP)

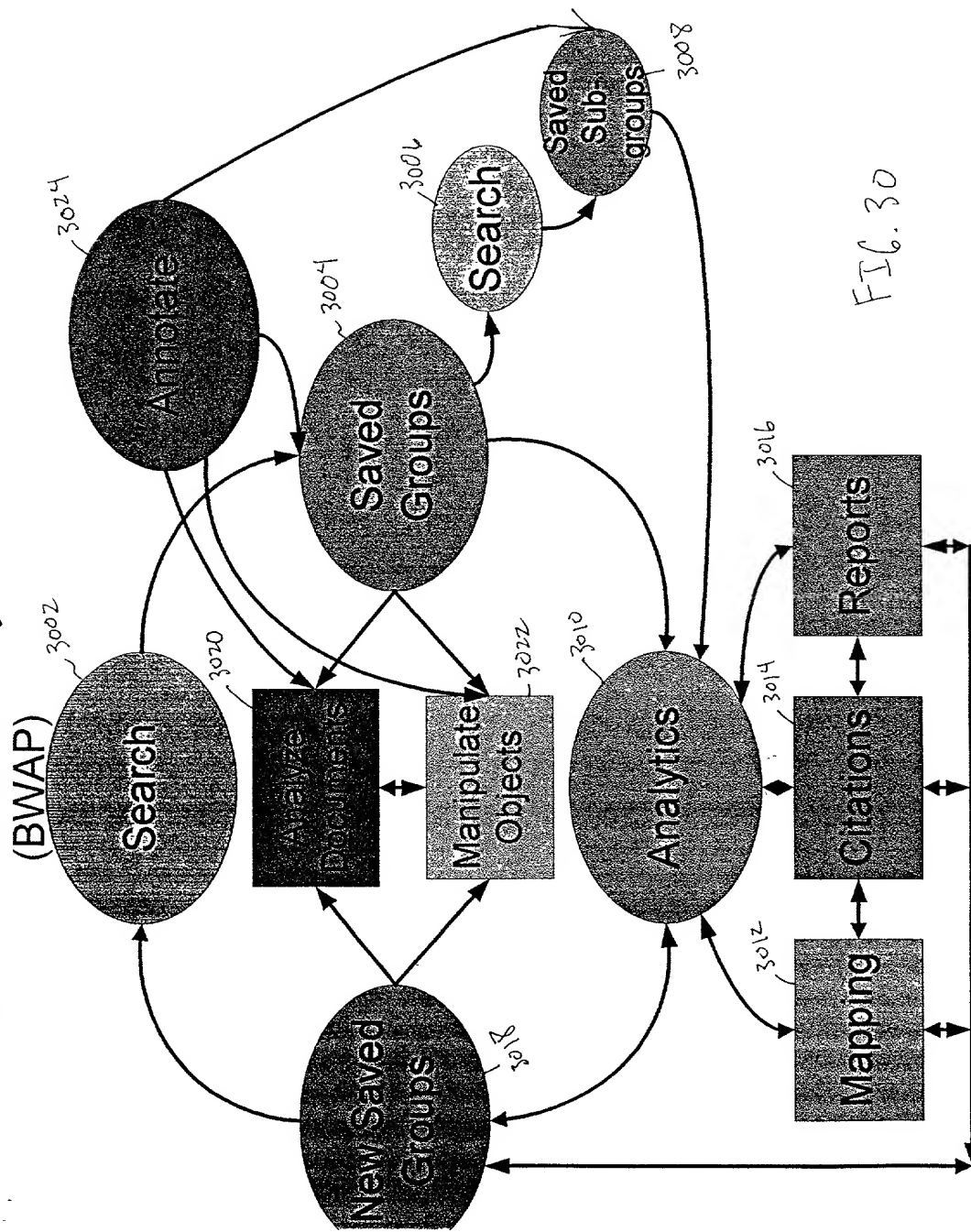


FIG. 30

3102
↓

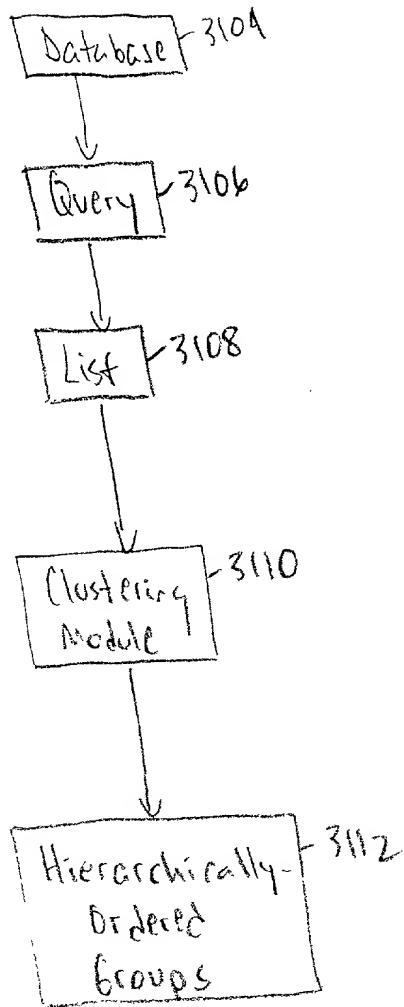


FIG. 31

CDMA ~ 3202

CDMA Technologies ~ 3204A

Code Division Multiple Access ~ 3204B

CDMA System ~ 3204C

Spread Spectrum ~ 3204D

Direct Marketing ~ 3204E

BSM ~ 3204F

WAP ~ 3204G

Industry ~ 3204H

FIG. 32

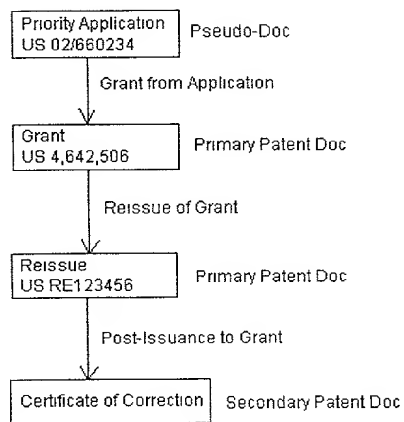


FIG. 33

3401
↓

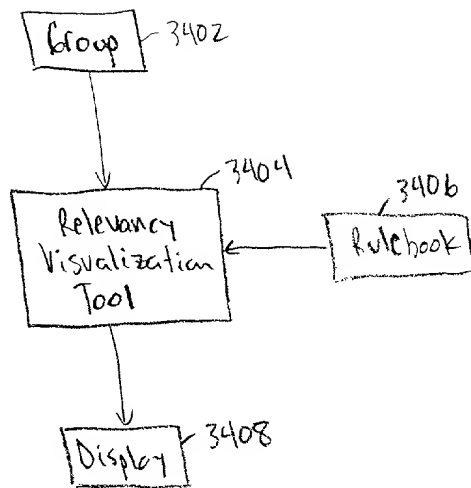


FIG. 34

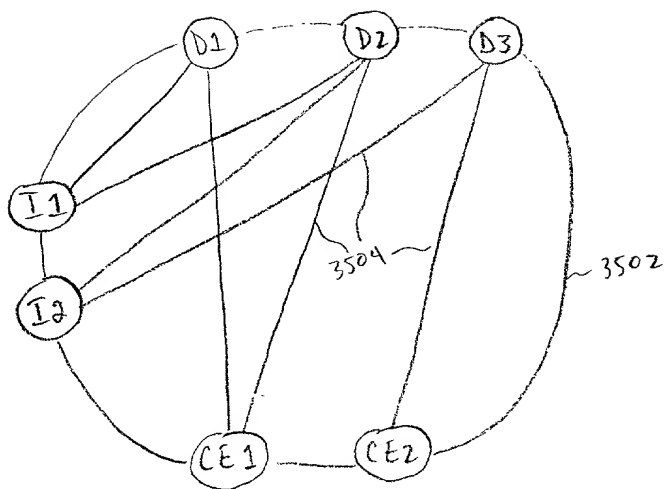
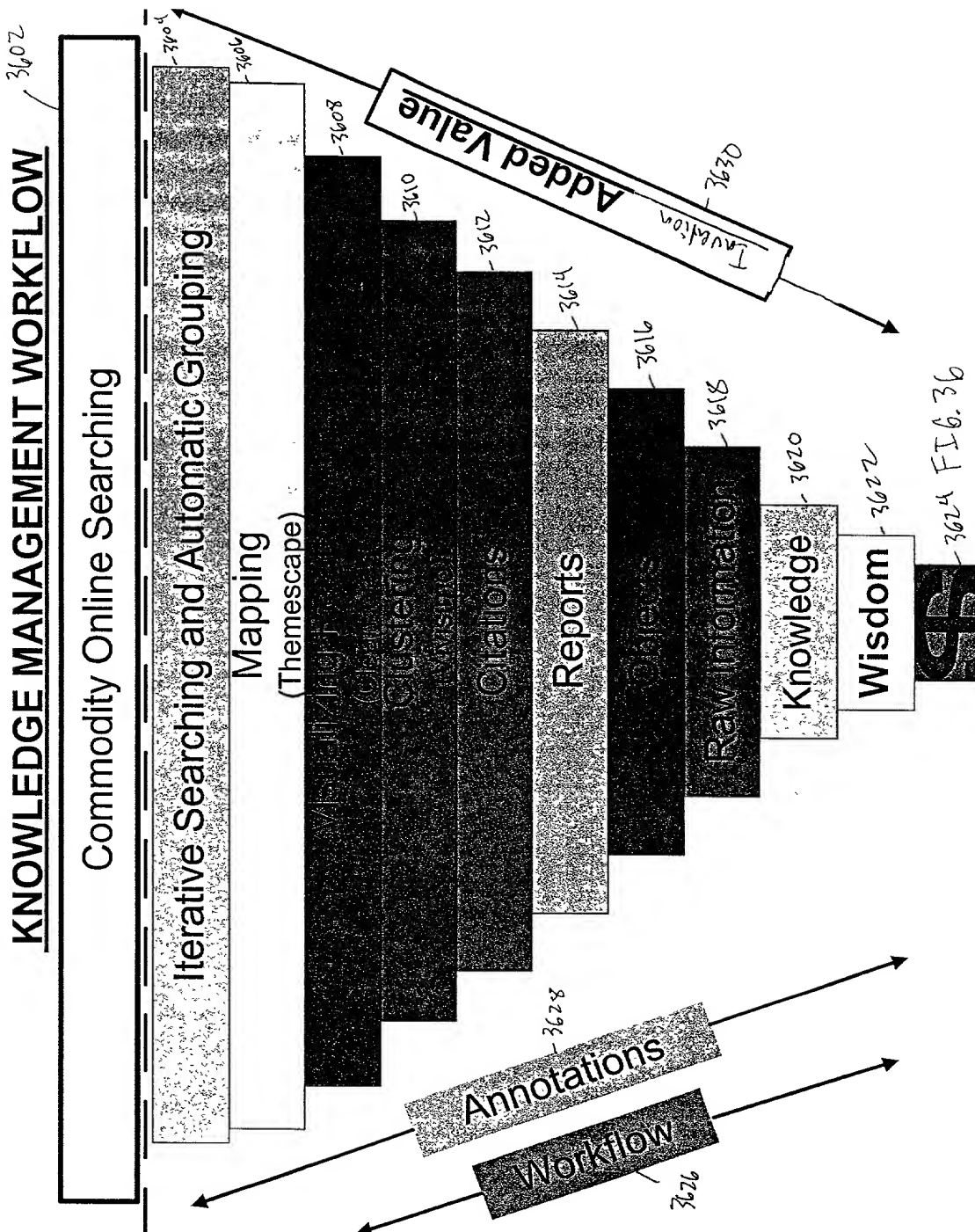


FIG. 35



Business Workflow and Analytics Portal

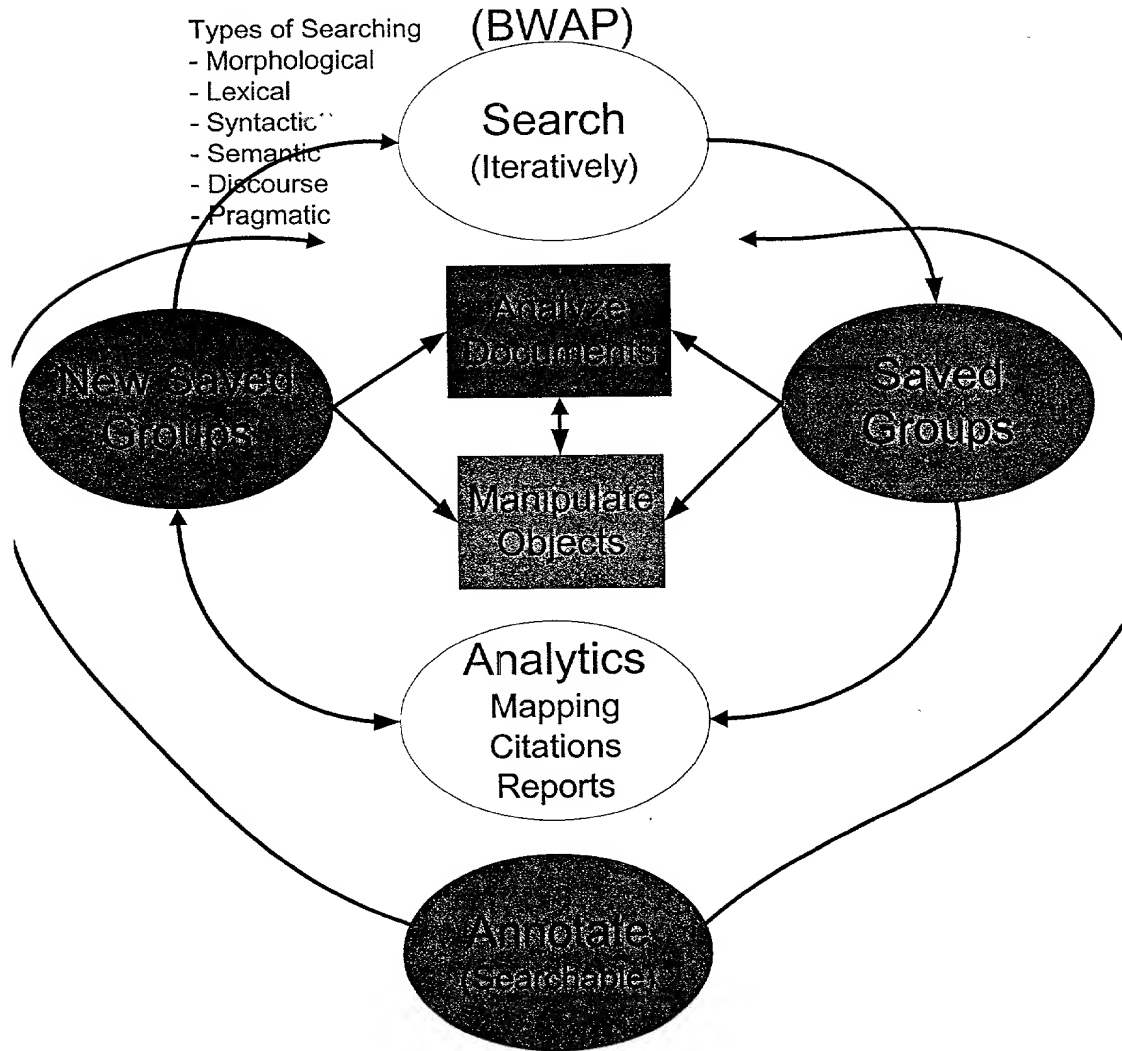


FIG. 3.7